```
=> file req
=> e dimethyl(5a)cholesta(10a)triene(5a)ol/cn
E1
              1
                    DIMETHYL (5-NITRO-2-FUROYLMETHYL) SULFONIUM BROMIDE, (2,4-DINI
                    TROPHENYL) HYDRAZONE/CN
E2
              1
                    DIMETHYL (5-SULFO-8-QUINOLYL) SULFONIUM HYDROXIDE, INNER SALT/
                    CN
E3
              O
               --> DIMETHYL (5A) CHOLESTA (10A) TRIENE (5A) OL/CN
                    DIMETHYL (6- ((5-NITROPYRIDIN-2-YL)OXY)-2-PHENYLCHROMAN-4-YL)A
E4
              1
                    MINE/CN
E5
              1
                    DIMETHYL (6-(2-PHENYLCHROMAN-6-YLOXY) PYRIDIN-3-YL) AMINE/CN
E6
              1
                    DIMETHYL (6-ACETOXY-1-ISOPROPENYL-4-METHYLHEXYL) SULFONIUM PER
                    CHLORATE/CN
E7
              1
                    DIMETHYL (6-ACETOXY-2,6-DIMETHYLOCTA-1,7-DIEN-3-YL) SULFONIUM
                    PERCHLORATE/CN
E.8
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                    DIMETHYL (6-METHYLCHOLEST-5-EN-3B-YL) SULFONIUM P-TOLUENE
                    SULFONATE/CN
E9
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                    DIMETHYL (6-OXO-5A-CHOLESTAN-3B-YL) SULFONIUM CHLOR
                    IDE/CN
E10
              1
                    DIMETHYL (6-OXO-5A-CHOLESTAN-3B-YL) SULFONIUM P-TOL
                    UENESULFONATE/CN
E11
              1
                    DIMETHYL (6-PHENANTHRIDINYLMETHYL) SULFONIUM CHLORIDE/CN
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              1
                    SULFONATE/CN
=> e dimethyl-5a-cholesta-8,14,24-triene-3b-ol/cn
E1
                    DIMETHYL-5-(DIMETHYLAMINO) ISOPHTHALATE-TETRAETHYLENE GLYCOL
                    POLYMER, SRU/CN
E2
              1
                    DIMETHYL-5-HEXENYLSILOXY-TERMINATED DIMETHYLPOLYSILOXANE. SR
                    U/CN
E3
              0 --> DIMETHYL-5A-CHOLESTA-8,14,24-TRIENE-3B-OL/CN
E4
              1
                    DIMETHYL-6-PHENANTHRIDINYLCARBINOL/CN
E5
              1
                    DIMETHYL-7-NORBORNYLIDENEAMMONIUM PERCHLORATE/CN
E6
              1
                    DIMETHYL-7-OCTENYLSILANOL/CN
E7
              1
                    DIMETHYL-9,10-DIHYDRO-10-METHYL-9-OXO-12H-JULOIDINO(8,9-B)OU
                    INOLINO (3, 4-E) PYRAN-12-YLIDENEDIMETHYLIMINIUM CHLORIDE/CN
E8
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                    DIMETHYL-9H-XANTHENE/CN
E10
             1
                    DIMETHYL-CARBOXY-METHYL-SELENIUM BROMIDE/CN
E11
             1
                    DIMETHYL-D-CHONDROCURARINE DICHLORIDE/CN
E12
              1
                    DIMETHYL-D-TUBOCURARINE/CN
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            38 DIMETHYLS
        321032 DIMETHYL
                  (DIMETHYL OR DIMETHYLS)
          1916 CHOLESTA
         10688 TRIENE
          1847 TRIENES
         11840 TRIENE
                  (TRIENE OR TRIENES)
        104381 OL
          4426 OLS
        107035 OL
                  (OL OR OLS)
L1
             2 DIMETHYL (5A) CHOLESTA (10A) TRIENE (5A) OL
=> d ind 1-2
```

L1 ANSWER 1 OF 2 CA COPYRIGHT 2004 ACS on STN

```
ICM A61K031-00
IC
     63-6 (Pharmaceuticals)
CC
     Section cross-reference(s): 2
ST
     meiosis activating sterol soln fertilization; protein solubilization
     meiosis activating substance; phosphoglyceride solubilization meiosis
     activating sterol
TT
        (germinal vesicle, breakdown; solns. containing meiosis-activating
        substance and additive for in vitro fertilization)
     Fertilization
TT
        (in vitro; solns. containing meiosis-activating substance and additive for
        in vitro fertilization)
TΤ
        (oocyte; solns. containing meiosis-activating substance and additive for in
        vitro fertilization)
     Albumins, biological studies
TT
     RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (serum; solns. containing meiosis-activating substance and additive for in
        vitro fertilization)
TT
     Sterols
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); PEP (Physical, engineering or chemical process); THU
     (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
        (solns. containing meiosis-activating sterols and additive for in vitro
        fertilization)
IT
     Meiosis
        (solns. containing meiosis-activating substance and additive for in vitro
        fertilization)
IT
     Glycerophospholipids
     Proteins, general, biological studies
     RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (solns. containing meiosis-activating substance and additive for in vitro
        fertilization)
IT
     Drug delivery systems
        (solns.; solns. containing meiosis-activating substance and additive for in
        vitro fertilization)
IT
                19431-20-0
     516-72-3
                             64284-64-6
                                          174351-75-8
                                                         250256-71-4
     330432-44-5
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
        (solns. containing meiosis-activating substance and additive for in vitro
        fertilization)
L1
    ANSWER 2 OF 2 CA COPYRIGHT 2004 ACS on STN
CC
    2-0 (Mammalian Hormones)
    Section cross-reference(s): 13
ST
     review meiosis activating sterol fertility mammal
IT
    Fertility
    Meiosis
        (meiosis activating sterols and fertility in mammals and man)
    7448-02-4
TT
                 64284-64-6
    RL: BAC (Biological activity or effector, except adverse); BOC (Biological
    occurrence); BSU (Biological study, unclassified); MFM (Metabolic
    formation); THU (Therapeutic use); BIOL (Biological study); FORM
     (Formation, nonpreparative); OCCU (Occurrence); USES (Uses)
        (meiosis activating sterols and fertility in mammals and man)
```

=> FIL REGISTRY

=> SET NOTICE 1 DISPLAY

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 7448-02-4 REGISTRY

CN Cholesta-8,24-dien-3-ol, 4,4-dimethyl-, $(3\beta,5\alpha)$ - (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 5α -Cholesta-8,24-dien-3 β -ol, 4,4-dimethyl- (6CI, 7CI, 8CI)

OTHER NAMES:

CN 14-Norlanosterol

CN 14α -Demethyllanosterol

CN 4,4-Dimethyl-5 α -cholesta-8(9),24-dien-3 β -ol

CN 4,4-Dimethyl-5 α -cholesta-8,24-dien-3 β -ol

CN 4,4-Dimethylcholesta-8,24-dienol

CN 4,4-Dimethylzymosterol

FS STEREOSEARCH

MF C29 H48 O

LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, EMBASE, MEDLINE, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

DT.CA CAplus document type: Conference; Journal; Patent

RL.P Roles from patents: BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); PREP (Preparation)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 90 REFERENCES IN FILE CA (1907 TO DATE)
- 3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 90 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- 3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND SET COMMAND COMPLETED

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=> FIL REGISTRY

=> S 64284-64-6/RN

L3 1 64284-64-6/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND SET COMMAND COMPLETED

=> D L3 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):Y THE ESTIMATED COST FOR THIS REQUEST IS 5.92 U.S. DOLLARS DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 64284-64-6 REGISTRY

CN Cholesta-8,14,24-trien-3-ol, 4,4-dimethyl-, $(3\beta,5\alpha)$ - (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 4,4-Dimethyl-5 α -cholesta-8,14,24-trien-3 β -ol

CN FF-MAS

FS STEREOSEARCH

MF C29 H46 O

LC STN Files: BEILSTEIN*, BIOSIS, CA, CANCERLIT, CAPLUS, CASREACT, MEDLINE, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: PREP (Preparation)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

73 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

73 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file ca => d l1 bib abs 1-2 ANSWER 1 OF 2 CA COPYRIGHT 2004 ACS on STN L1ΑN 134:242674 CA Composition for in vitro IVF containing a meiosis-activating substance TI Andersen, Tina Meinertz IN Novo Nordisk A/s, Den. PA PCT Int. Appl., 11 pp. SO CODEN: PIXXD2 DTPatent English LA FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. ______ ----_____ -----_____ PΙ WO 2001019354 A2 20010322 WO 2000-DK500 20000911 WO 2001019354 **A**3 20010614 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG 20020626 EP 2000-958274 EP 1216059 A2 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL BR 2000014058 Α 20040330 BR 2000-14058 20000911 ZA 2002001383 Α 20020906 ZA 2002-1383 20020219 NO 2002001309 20020315 NO 2002-1309 Α 20020315 PRAI DK 1999-1308 19990916 Α WO 2000-DK500 W 20000911 A composition useful in connection with in vitro fertilization (IVF) based on a solid meiosis-activating substance (MAS) or a derivative thereof with low solubility is described. A MAS can be dissolved in an aqueous medium using an additive, e.g., a protein or a phosphoglyceride, to obtain a solution containing at least 0.001 µg/mL and not more than 0.1 g/mL of MAS. For example, solns. were prepared by mixing (a) 100 µL of ethanolic 4,4dimethyl- 5α - cholesta-8,14,24-triene -3β - ol (FF-MAS) containing 5.22, 2.5, or 0.5 μ g/mL FF-MAS and (b) 250 μL of 20% aqueous human serum albumin (HSA) in the ratio of FF-MAS to HSA of 1:10,000, 1:6667, and 1:2000, resp., and tested on oocytes obtained from immature female mice. Percent of germinal vesicle breakdown (GVB) for the formulations prepared were 78, 82, and 90%, resp. ANSWER 2 OF 2 CA COPYRIGHT 2004 ACS on STN L1132:73693 CA ANMeiosis activating sterols (MAS) and fertility in mammals and man ΤI

- AU Byskov, Anne Grete; Andersen, Claus Yding; Leonardsen, Lise; Baltsen, Morgens
- CS Laboratory of Reproductive Biology, Juliane Marie Center for Children, Women and Reproduction, University Hospital of Copenhagen, Copenhagen, DK-2100, Den.
- SO Journal of Experimental Zoology (1999), 285(3), 237-242 CODEN: JEZOAO; ISSN: 0022-104X
- PB Wiley-Liss, Inc.
- DT Journal; General Review
- LA English

A review with .apprx.35 refs. In mammals two meiosis activating sterols AB (MAS) have been found to activate meiotic resumption in mouse oocytes, in vitro. FF-MAS $(4,4-dimethyl-5\alpha-cholesta)$ -8,14,24-triene- 3β - ol) was extracted from human preovulatory follicular fluid and T-MAS (4,4-dimethyl-5 α -cholest-8,24-diene-3β-ol) from bull testicular tissue. Quite unexpected, these two sterols, which introduce the cholesterol biosynthetic pathway from lanosterol, may be locally acting substances with important physiol. function for reproduction FF-MAS and T-MAS are present in the preovulatory follicular fluid of different mammalian species and have the capacity to initiate resumption of meiosis in mouse oocyte cultured in the presence of hypoxanthine, a natural meiosis maturation inhibitor. FF-MAS is produced by the cumulus cells of intact oocyte-cumulus complexes upon FSH-stimulation and provides the oocyte with a go-signal for the resumption of meiosis. T-MAS constitutes the vast majority of MAS found in the mammalian testis and in the human ejaculate; in particular a high concentration is found in the spermatozoa. T-MAS may be produced by the spermatids and the presence of T-MAS in spermatozoa may suggest that T-MAS plays a role in fertilization by affecting the second meiotic division.

RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- => file reg
- => sel 13 name
- E1 THROUGH E2 ASSIGNED
- => index bioscience
- 74 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF.

=> s e1-2 or 64284-64-6

- 2 FILE ADISINSIGHT
- 1 FILE AGRICOLA
- 49 FILE BIOSIS
- 12 FILES SEARCHED...
 - 9 FILE BIOTECHABS
 - 9 FILE BIOTECHDS
 - 23 FILE BIOTECHNO
 - 17 FILE CABA
 - 2 FILE CANCERLIT
- 17 FILES SEARCHED...
 - 88 FILE CAPLUS
 - 1 FILE CEABA-VTB
 - 1 FILE CONFSCI
 - 1 FILE DISSABS
 - 1 FILE DDFU
- 27 FILES SEARCHED...
 - 100 FILE DGENE
 - 3 FILE DRUGU
 - 2 FILE EMBAL
 - 38 FILE EMBASE
 - 32 FILE ESBIOBASE
- 36 FILES SEARCHED...
 - 9 FILE IFIPAT
 - 3 FILE LIFESCI
- 48 FILES SEARCHED...
 - 49 FILE MEDLINE
 - 22 FILE PASCAL
- 55 FILES SEARCHED...
 - 1 FILE PHAR
 - 1 FILE PROUSDDR

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FILE SCISEARCH
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             FILE TOXCENTER
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  66 FILES SEARCHED...
            FILE USPATFULL
         29
         3 · FILE USPAT2
          1
             FILE VETU
 71 FILES SEARCHED...
            FILE WPIDS
         27
 72 FILES SEARCHED...
            FILE WPINDEX
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F1.
F2
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                 CAPLUS
F3
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F5
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            20 L5
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             15 DUP REM L6 (5 DUPLICATES REMOVED)
L7
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                ANSWERS '14-15' FROM FILE CAPLUS
=> s 17 and (protein or polypeptide or phosphoglycer?)
             6 L7 AND (PROTEIN OR POLYPEPTIDE OR PHOSPHOGLYCER?)
L8
=> dup rem 18
PROCESSING COMPLETED FOR L8
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                ANSWERS '1-4' FROM FILE USPATFULL
                ANSWERS '5-6' FROM FILE CAPLUS
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L4

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=> d bib 1-4
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L9
     ANSWER 1 OF 6 USPATFULL on STN
       2002:299266 USPATFULL
AN
TI
       Composition for IVF
IN
       Andersen, Tina Meinertz, Horsholm, DENMARK
       Muller, Lars Klingberg, Ballerup, DENMARK
PΙ
       US 2002166789
                          Α1
                                20021114
                                20020205 (10)
AΙ
       US 2002-68224
                          A1
PRAI
       DK 2001-189
                           20010206
       DK 2001-382
                            20010308
       US 2001-273162P
                            20010302 (60)
DT
       Utility
FS
       APPLICATION
LREP
       Reza Green, Esq., Novo Nordisk of North America, Inc., Suite 6400, 405
       Lexington Avenue, New York, NY, 10174-6401
CLMN
       Number of Claims: 42
ECL
       Exemplary Claim: 1
DRWN
       No Drawings
LN.CNT 643
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
Ь9
     ANSWER 2 OF 6 USPATFULL on STN
AN
       2002:235463 USPATFULL
       Follicle stimulating hormones
TI
       Schambye, Hans Thalsgard, Frederiksberg, DENMARK
IN
       Andersen, Kim Vilbour, Copenhagen, DENMARK
       Hazel, Bart van den, Copenhagen, DENMARK
       Christiansen, Jesper, Lyngby, DENMARK
       Jeppesen, Claus Bekker, Nivaa, DENMARK
PΙ
       US 2002127652
                               20020912
                          Α1
                                20010209 (9)
AΙ
       US 2001-780933
                          A1
PRAI
       DK 2000-220
                           20000211
       DK 2000-1092
                           20000714
       US 2000-184035P
                           20000222 (60)
       US 2000-225558P
                           20000816 (60)
DТ
       Utility
FS
       APPLICATION
LREP
       LAW OFFICES OF JONATHAN ALAN QUINE, P O BOX 458, ALAMEDA, CA, 94501
CT.MN
       Number of Claims: 39
ECL
       Exemplary Claim: 1
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DRWN
LN.CNT 3427
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
Ь9
     ANSWER 3 OF 6 USPATFULL on STN
ΑN
       2002:99135 USPATFULL
TI
       Mycobacterium tuberculosis CYP51 polypeptides and nucleic
       acids and therapeutic and screening methods relating to same
IN
       Waterman, Michael R., Nashville, TN, UNITED STATES
       Bellamine, Aouatef, Nashville, TN, UNITED STATES
PΙ
       US 2002052031
                          A1
                               20020502
                          Α1
ΑI
       US 2001-909903
                                20010720 (9)
RLI
       Division of Ser. No. US 1999-345218, filed on 30 Jun 1999, ABANDONED
DT
       Utility
       APPLICATION
FS
       JENKINS & WILSON, PA, 3100 TOWER BLVD, SUITE 1400, DURHAM, NC, 27707
LREP
CLMN
       Number of Claims: 56
ECL
       Exemplary Claim: 1
       7 Drawing Page(s)
DRWN
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L9
     ANSWER 4 OF 6 USPATFULL on STN
       2002:54621 USPATFULL
AN
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Mycobacterium tuberculosis CYP51 high resolution structure,
ΤI
       polypeptides and nucleic acids, and therapeutic and screening
       methods relating to same
IN
       Waterman, Michael R., Nashville, TN, UNITED STATES
       Bellamine, Aouatef, Nashville, TN, UNITED STATES
       Podust, Larissa M., Hermitage, TN, UNITED STATES
PΙ
       US 2002031782
                          A1
                               20020314
AΙ
       US 2001-796138
                          Α1
                               20010228 (9)
       Continuation-in-part of Ser. No. US 1999-345218, filed on 30 Jun 1999,
RLI
       ABANDONED
DT
       Utility
FS
       APPLICATION
LREP
       JENKINS & WILSON, PA, 3100 TOWER BLVD, SUITE 1400, DURHAM, NC, 27707
CLMN
       Number of Claims: 42
ECL
       Exemplary Claim: 1
       14 Drawing Page(s)
DRWN
LN.CNT 16055
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
=> d bib abs hit 5-6
     ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
L9
AN
     2002:615351 CAPLUS
DN
     137:150623
ΤI
     Process and container with low oxygen content and containing a stable MAS
     (meiosis activation substances) composition for increasing the fertility
     of oocytes and use in IVF or IVM
     Mueller, Lars Klingberg; Andersen, Tina Meinertz
IN
     Novo Nordisk A/S, Den.
PA
     PCT Int. Appl., 22 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                            APPLICATION NO.
                                                                   DATE
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PΙ
     WO 2002062287
                         A1
                                20020815
                                            WO 2002-DK35
                                                                   20020117
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             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
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             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
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         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
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                                20031112
                                           EP 2002-715376
                                                                   20020117
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             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     JP 2004525676
                          T2
                                20040826
                                            JP 2002-562295
                                                                   20020117
     US 2002166789
                          A1
                                20021114
                                            US 2002-68224
                                                                   20020205
PRAI DK 2001-189
                          Α
                                20010206
     US 2001-273162P
                          Р
                                20010302
     DK 2001-382
                         Α
                                20010308
     WO 2002-DK35
                          W
                                20020117
     A solid, stable composition containing a meiosis activating substance can
AB
     be prepared by adding a protein or a phosphoglyceride in
     the presence of an atmospheric having a low content of oxygen, for example in
     vacuo. A closed container having a low content of oxygen and further
     containing MAS is claimed. More specifically, a closed container having a low
     content of oxygen and further containing a solid composition with high
     aqueous solubility comprising MAS and an additive is claimed. Also claimed is
a
    process for preparing a closed container having a low content of oxygen and
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further containing a solid composition comprising MAS and an additive. THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT A solid, stable composition containing a meiosis activating substance can AΒ be prepared by adding a protein or a phosphoglyceride in the presence of an atmospheric having a low content of oxygen, for example in vacuo. A closed container having a low content of oxygen and further containing MAS is claimed. More specifically, a closed container having a low content of oxygen and further containing a solid composition with high aqueous solubility comprising MAS and an additive is claimed. Also claimed is process for preparing a closed container having a low content of oxygen and further containing a solid composition comprising MAS and an additive. low oxygen container meiosis activating substance solid compn; oocyte fertility stable meiosis activating substance compn container ΙT Glycerophospholipids Proteins RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (additive; container with low oxygen content containing a solid MAS (meiosis activation substances) composition with an additive for increasing fertility of oocytes and use in IVF or IVM) IT Meiosis (container with low oxygen content containing a solid MAS (meiosis activation substances) composition with an additive for increasing fertility of oocytes and use in IVF or IVM) IT (human serum albumin as an additive; container with low oxygen content containing a solid MAS (meiosis activation substances) composition with an additive for increasing fertility of oocytes and use in IVF or IVM) Fertilization IT (in vitro; container with low oxygen content containing a solid MAS (meiosis activation substances) composition with an additive for increasing fertility of oocytes and use in IVF or IVM) IT Egg (oocyte; container with low oxygen content containing a solid MAS (meiosis activation substances) composition with an additive for increasing fertility of oocytes and use in IVF or IVM) TΥ Albumins, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (serum, additive; container with low oxygen content containing a solid MAS (meiosis activation substances) composition with an additive for increasing fertility of oocytes and use in IVF or IVM) IT516-72-3 19431-20-0, 5α -Cholesta-8,14-dien-3 β -ol 64284-64-6, 4,4-Dimethyl-5 α -cholesta-8,14,24trien-3 β -ol 174351-75-8 250256-71-4 252892-85-6 330432-44-5 446026-53-5 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (MAS; process and container with low oxygen content and containing a stable MAS (meiosis activation substances) composition for increasing fertility of oocytes and use in IVF or IVM) L9 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN AN 2001:208095 CAPLUS DN 134:242674 ΤI Composition for in vitro IVF containing a meiosis-activating substance IN Andersen, Tina Meinertz PΑ Novo Nordisk A/s, Den. PCT Int. Appl., 11 pp. SO CODEN: PIXXD2 DTPatent

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     A composition useful in connection with in vitro fertilization (IVF) based on a
     solid meiosis-activating substance (MAS) or a derivative thereof with
     low solubility is described. A MAS can be dissolved in an aqueous medium
using an
     additive, e.g., a protein or a phosphoglyceride, to
     obtain a solution containing at least 0.001 µg/mL and not more than 0.1 q/mL
     of MAS. For example, solns. were prepared by mixing (a) 100 \mu L of
     ethanolic 4,4-dimethyl-5\alpha-cholesta-8,14,24-triene-3\beta-ol (
     FF-MAS) containing 5.22, 2.5, or 0.5 \mug/mL FF-
     MAS and (b) 250 µL of 20% aqueous human serum albumin (HSA) in the
     ratio of FF-MAS to HSA of 1:10,000, 1:6667, and
     1:2000, resp., and tested on oocytes obtained from immature female mice.
     Percent of germinal vesicle breakdown (GVB) for the formulations prepared
     were 78, 82, and 90%, resp.
     A composition useful in connection with in vitro fertilization (IVF) based on a
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     meiosis activating sterol soln fertilization; protein
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     solubilization meiosis activating substance; phosphoglyceride
     solubilization meiosis activating sterol
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     Glycerophospholipids
       Proteins, general, biological studies
     RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
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     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
     (Uses)
        (solns. containing meiosis-activating substance and additive for in vitro
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